



SEQUENCE LISTING

# 7

<110> Aventis Pharma, S.A.

<120> Polypeptide (MBP1) Capable Of Interacting With Oncogenic Mutants Of The P53 Protein

<130> ST98033

<140> 09/829,936

<141> 2001-04-11

<150> FR9812754

<151> 1998-10-12

<160> 33

<170> PatentIn version 3.1

<210> 1

<211> 23

<212> DNA

<213> Artificial Sequence: Oligonucleotide

<400> 1

agatctgtat ggaggagccg cag

23

<210> 2

<211> 29

<212> DNA

<213> Artificial Sequence: Oligonucleotide 3' -393 (p53)

<400> 2

agatctcatc agtctgagtc aggcccttc

29

<210> 3

<211> 15  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide H175 3'

<400> 3  
 ggggcagtgctcac 15

<210> 4  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide w248 3'

<400> 4  
 gggcctccagttcat 15

<210> 5  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide H273 3'

<400> 5  
 acaaacatgcacctc 15

<210> 6  
 <211> 15  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide G281 3'

<400> 6  
 gcgccggcctctccc 15

<210> 7  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide 5' -73

<400> 7  
agatctgtgt ggccccctgca cca

23

<210> 8

<211> 1021

<212> DNA

<213> Artificial Sequence: Fragment C-term MBP1 murine: CDS  
(1)..(885)

<400> 8  
tgcacctgcc ctgatggtta ccgaaaaatt ggacccgaat gtgtggacat agatgagtgt 60  
cgttaccgct attgccagca tcgatgtgtg aacctgccgg gtccttttcg atgccagtgt 120  
gagccaggct tccagttggg acctaacaac cgctcttgtg tggatgtgaa tgagtgtgac 180  
atgggagccc catgtgagca gcgctgcttc aactcctatg ggaccttcct gtgtcgctgt 240  
aaccagggct atgagctgca ccgggatggc ttctcctgca gcgatatcga tgagtgcggc 300  
tactccagtt acctctgcca gtaccgctgt gtcaacgagc caggccgatt ctctgtcac 360  
tgcccacaag gctaccagct gctggctaca aggtctgcc aagatattga cgagtgtgaa 420  
acaggtgcac accaatgttc tgaggcccaa acctgtgtca acttccatgg gggttaccgc 480  
tgtgtggaca ccaaccgttg tgtggagccc tatgtccaag tgtcagacaa ccgctgcctc 540  
tgccctgcct ccaatcccct ttgtcgagag cagccttcct ccattgtgca ccgctacatg 600  
agcatcacct cagagcgaag tgtgcctgct gacgtgtttc agatccaggc aacctctgtc 660  
taccctggtg cctacaatgc ctttcagatc cgttctggaa acacacaggg ggacttctac 720  
attaggcaaa tcaacaatgt cagcgccatg ctggtcctcg ccaggccagt gacgggaccc 780  
cgggagtagc tgctggacct ggagatggtc accatgaatt cccttatgag ctaccgggccc 840  
agctctgtac tgagactcac ggtctttgtg ggagcctata ctttctgaag accctcaggg 900  
aagggccatg tgggggcccc ttccccctcc catagcttaa gcagccccgg gggcctaggg 960  
atgaccgttc tgcttaaagg aactatgatg tgaaggacaa taaagggaga aagaaggaaa 1020  
a 1021

<210> 9

<211> 295

<212> PRT

<213> Artificial Sequence: Fragment C-term MBP1 murine

<400> 9

Cys Thr Cys Pro Asp Gly Tyr Arg Lys Ile Gly Pro Glu Cys Val Asp  
 1 5 10 15  
 Ile Asp Glu Cys Arg Tyr Arg Tyr Cys Gln His Arg Cys Val Asn Leu  
 20 25 30  
 Pro Gly Ser Phe Arg Cys Gln Cys Glu Pro Gly Phe Gln Leu Gly Pro  
 35 40 45  
 Asn Asn Arg Ser Cys Val Asp Val Asn Glu Cys Asp Met Gly Ala Pro  
 50 55 60  
 Cys Glu Gln Arg Cys Phe Asn Ser Tyr Gly Thr Phe Leu Cys Arg Cys  
 65 70 75 80  
 Asn Gln Gly Tyr Glu Leu His Arg Asp Gly Phe Ser Cys Ser Asp Ile  
 85 90 95  
 Asp Glu Cys Gly Tyr Ser Ser Tyr Leu Cys Gln Tyr Arg Cys Val Asn  
 100 105 110  
 Glu Pro Gly Arg Phe Ser Cys His Cys Pro Gln Gly Tyr Gln Leu Leu  
 115 120 125  
 Ala Thr Arg Leu Cys Gln Asp Ile Asp Glu Cys Glu Thr Gly Ala His  
 130 135 140  
 Gln Cys Ser Glu Ala Gln Thr Cys Val Asn Phe His Gly Gly Tyr Arg  
 145 150 155 160  
 Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Val Gln Val Ser Asp  
 165 170 175  
 Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys Arg Glu Gln Pro  
 180 185 190  
 Ser Ser Ile Val His Arg Tyr Met Ser Ile Thr Ser Glu Arg Ser Val  
 195 200 205  
 Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val Tyr Pro Gly Ala  
 210 215 220  
 Tyr Asn Ala Phe Gln Ile Arg Ser Gly Asn Thr Gln Gly Asp Phe Tyr  
 225 230 235 240  
 Ile Arg Gln Ile Asn Asn Val Ser Ala Met Leu Val Leu Ala Arg Pro  
 245 250 255

Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu Met Val Thr Met  
260 265 270

Asn Ser Leu Met Ser Tyr Arg Ala Ser Ser Val Leu Arg Leu Thr Val  
275 280 285

Phe Val Gly Ala Tyr Thr Phe  
290 295

<210> 10

<211> 39

<212> DNA

<213> Artificial sequence: oligonucleotide c-myc 5'

<400> 10  
gatccatgga gcagaagctg atctccgagg aggacctga 39

<210> 11

<211> 39

<212> DNA

<213> Artificial sequence: oligonucleotide c-myc 3'

<400> 11  
gatctcaggt cctcctcgga gatcagcttc tgctccatg 39

<210> 12

<211> 45

<212> DNA

<213> Artificial sequence: MCS 5'

<400> 12  
gatctcgggc gacctgcatg caattcccgg gtgcggccgc gagct 45

<210> 13

<211> 37

<212> DNA

<213> Artificial sequence: MCS 3'

<400> 13  
cgcgccgca cccgggaatt gcatgcaggt cgaccga 37

<210> 14

<211> 22

<212> DNA

<213> Artificial Sequence: Oligonucleotide 3' mMBP1

<400> 14  
cggtactggc agaggtaact gg 22

<210> 15

<211> 1513

<212> DNA

<213> Artificial Sequence: MBP1 murine (complete sequence): CDS  
(49)..(1377)

<400> 15  
gctgtggcag aaaccctga cttctgccc ccacctcca gcctcaggat gctccctttt 60  
gcctcctgcc tccccgggtc tttgtgctc tgggcgtttc tgctgttgct cttgggagca 120  
gcgtccccac aggatcccga ggagccggac agctacacgg aatgcacaga tggctatgag 180  
tgggatgcag acagccagca ctgccgggat gtcaacgagt gcctgaccat cccggaggct 240  
tgcaaggggtg agatgaaatg catcaaccac tacggggggtt atttgtgtct gcctcgctct 300  
gctgccgtca tcagtgatct ccatggtgaa ggacctccac cgccagcggc ccatgctcaa 360  
caaccaaacc cttgcccga gggctacgag cctgatgaac aggagagctg tgtggatgtg 420  
gacgagtgtg cccaggcttt gcatgactgt cgccctagtc aggactgcca taaccttcct 480  
ggctcctacc agtgcacctg ccctgatggt taccgaaaaa ttggaccga atgtgtggac 540  
atagatgagt gtcgttaccg ctattgccag catcgatgtg tgaacctgcc gggctctttt 600  
cgatgccagt gtgagccagg cttccagttg ggacctaca accgctcttg tgtggatgtg 660  
aatgagtgtg acatgggagc cccatgtgag cagcgctgct tcaactccta tgggaccttc 720  
ctgtgtcgtg gtaaccaggg ctatgagctg caccgggatg gcttctcctg cagcgatatc 780  
gatgagtgcg gctactccag ttacctctgc cagtaccgct gtgtcaacga gccaggccga 840  
ttctcctgtc actgccaca aggctaccag ctgctggcta caaggctctg ccaagatatt 900  
gacgagtgtg aaacagggtg acaccaatgt tctgaggccc aaacctgtgt caacttccat 960  
gggggttacc gctgtgtgga caccaaccgt tgtgtggagc cctatgtcca agtgtcagac 1020

aaccgctgcc tctgccctgc ctccaatccc ctttgtcgag agcagccttc atccattgtg 1080  
caccgctaca tgagcatcac ctgagagcga agtgtgcctg ctgacgtgtt tcagatccag 1140  
gcaacctctg tctaccctgg tgcctacaat gcctttcaga tccgttctgg aaacacacag 1200  
ggggacttct acattaggca aatcaacaat gtcagcgcca tgctggctct cgccaggcca 1260  
gtgacgggac cccggggagta cgtgctggac ctggagatgg tcaccatgaa ttcccttatg 1320  
agctaccggg ccagctctgt actgagactc acggtctttg tgggagccta taccttctga 1380  
agaccctcag ggaagggcca tgtggggggc ccttccccct cccatagctt aagcagcccc 1440  
gggggcctag ggatgaccgt tctgcttaaa ggaactatga tgtgaaggac aataaaggga 1500  
gaaagaagga aaa 1513

<210> 16

<211> 442

<212> PRT

<213> Artificial sequence: MBP1 murine (complete sequence)

<400> 16

Met Leu Pro Phe Ala Ser Cys Leu Pro Gly Ser Leu Leu Leu Trp Ala  
1 5 10 15

Phe Leu Leu Leu Leu Gly Ala Ala Ser Pro Gln Asp Pro Glu Glu  
20 25 30

Pro Asp Ser Tyr Thr Glu Cys Thr Asp Gly Tyr Glu Trp Asp Ala Asp  
35 40 45

Ser Gln His Cys Arg Asp Tyr Asn Glu Cys Leu Thr Ile Pro Glu Ala  
50 55 60

Cys Lys Gly Glu Met Lys Cys Ile Asn His Tyr Gly Gly Tyr Leu Cys  
65 70 75 80

Leu Pro Arg Ser Ala Ala Val Ile Ser Asp Leu His Gly Glu Gly Pro  
85 90 95

Pro Pro Pro Ala Ala His Ala Gln Gln Pro Asn Pro Cys Pro Gln Gly  
100 105 110

Tyr Glu Pro Asp Glu Gln Glu Ser Cys Val Asp Val Asp Glu Cys Thr  
115 120 125

Gln Ala Leu His Asp Cys Arg Pro Ser Gln Asp Cys His Asn Leu Pro  
 130 135 140  
 Gly Ser Tyr Gln Cys Thr Cys Pro Asp Gly Tyr Arg Lys Ile Gly Pro  
 145 150 155 160  
 Glu Cys Val Asp Ile Asp Glu Cys Arg Tyr Arg Tyr Cys Gln His Arg  
 165 170 175  
 Cys Val Asn Leu Pro Gly Ser Phe Arg Cys Gln Cys Glu Pro Gly Phe  
 180 185 190  
 Gln Leu Gly Pro Asn Asn Arg Ser Cys Val Asp Val Asn Glu Cys Asp  
 195 200 205  
 Met Gly Ala Pro Cys Glu Gln Arg Cys Phe Asn Ser Tyr Gly Thr Phe  
 210 215 220  
 Leu Cys Arg Cys Asn Gln Gly Tyr Glu Leu His Arg Asp Gly Phe Ser  
 225 230 235 240  
 Cys Ser Asp Asp Glu Cys Gly Tyr Ser Ser Tyr Leu Cys Gln Tyr Arg  
 245 250 255  
 Cys Val Asn Glu Pro Gly Arg Phe Ser Cys His Cys Pro Gln Gly Tyr  
 260 265 270  
 Gln Leu Leu Ala Thr Arg Leu Cys Gln Asp Ile Asp Glu Cys Glu Thr  
 275 280 285  
 Gly Ala His Gln Cys Ser Glu Ala Gln Thr Cys Val Asn Phe His Gly  
 290 295 300  
 Gly Tyr Arg Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Val Gln  
 305 310 315 320  
 Val Ser Asp Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys Arg  
 325 330 335  
 Glu Gln Pro Ser Ser Ile Val His Arg Tyr Met Ser Ile Thr Ser Glu  
 340 345 350  
 Arg Ser Val Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val Tyr  
 355 360 365  
 Pro Gly Ala Tyr Asn Ala Phe Gln Ile Arg Ser Gly Asn Thr Gln Gly  
 370 375 380



Asp Phe Tyr Ile Arg Gln Ile Asn Asn Val Ser Ala Met Leu Val Leu  
 385 390 395 400

Ala Arg Pro Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu Met  
 405 410 415

Val Thr Met Asn Ser Leu Met Ser Tyr Arg Ala Ser Ser Val Leu Arg  
 420 425 430

Leu Thr Val Phe Val Gly Ala Tyr Thr Phe  
 435 440

<210> 17

<211> 21

<212> DNA

<213> Artificial Sequence: Oligonucleotide 3' hMBP1

<400> 17

ctccgctccg aggtgatggt c

21

<210> 18

<211> 21

<212> DNA

<213> Artificial Sequence: Oligonucleotide 5' hMBP1

<400> 18

tgtagctact ccagctacct c

21

<210> 19

<211> 1122

<212> DNA

<213> Artificial Sequence: Human cDNA MBP1

<400> 19

aagccagccg agccgccaga gccgcgggcc gcgggggtgt cgcgggccca accccaggat

60

gctcccctgc gcctcctgcc taccggggtc tctactgtc tgggcgctgc tactgttgct

120

cttgggatca gcttctctc aggattctga agagcccgac agctacacgg aatgcacaga

180

tggctatgag tgggaccag acagccagca ctgccgggat gtcaacgagt gtctgaccat

240

ccctgaggcc tgcaaggggg aaatgaagtg catcaaccac tacgggggct acttgtgcct

300

gccccgctcc gctgccgtca tcaacgacct acacggcgag ggacccccgc caccagtgcc	360
tcccgctcaa caccccaacc cctgcccacc aggctatgag cccgacgac aggacagctg	420
tgtggatgtg gacgagtgtg cccagggcct gcacgactgt cgccccagcc aggactgcca	480
taacttgctt ggctcctatc agtgcacctg ccctgatggt taccgcaaga tcgggcccga	540
gtgtgtggac atagacgagt gccgctaccg ctactgccag caccgctgcg tgaacctgcc	600
tggctccttc cgctgccagt gcgagccggg cttccagctg gggcctaaca accgctcctg	660
tgttgatgtg aacgagtgtg acatgggggc cccatgagag cagcgctgct tcaactccta	720
tgggaccttc ctgtgtcgct gccaccaggg ctatgagctg catcgggatg gcttctcctg	780
cagtgatatt gatgagtgtg gctactccag ctacctctgt cagtaccgct gcgtcaacga	840
gccaggccgt ttctcctgcc actgcccaca gggttaccag ctgctggcca cagcctctg	900
ccaagacatt gatgagtgtg agtctggtgc gcaccagtgc tccgaggccc aaacctgtgt	960
caacttccat gggggctacc gctgcgtgga caccaaccgc tgcgtggagc cctacatcca	1020
ggctcttgag aaccgctgtc tctgcccggc ctccaaccct ctatgtcgag agcagccttc	1080
atccattgtg caccgctaca tgaccatcac ctcggagcgg ag	1122

<210> 20

<211> 684

<212> DNA

<213> Artificial Sequence: Human cDNA MBP1 (partial sequence)

<400> 20	
tgtagctact ccagctacct ctgtcagtac cgctgcgtca acgagccagg ccgtttctcc	60
tgccactgcc cacagggtta ccagctgctg gccacacgcc tctgccaaga cattgatgag	120
tgtgagtctg gtgcgacca gtgctccgag gccc aaacct gtgtcaactt ccatgggggc	180
taccgctgcg tggacaccaa ccgctgcgtg gagccctaca tccaggtctc tgagaaccgc	240
tgtctctgcc cggcctcaa ccctctatgt cgagagcagc cttcatccat tgtgcaccgc	300
tacatgacca tcacctcgga gcggagcgtg cccgctgacg tgttccagat ccaggcgacc	360
tccgtctacc ccggtgccta caatgccttt cagatccgtg ctggaaactc gcagggggac	420
ttttacatta ggcaaatcaa caacgtcagc gccatgctgg tcctcgcccg gccggtgacg	480
ggcccccggg agtacgtgct ggacctggag atggtcacca tgaattccct catgagctac	540
cgggccagct ctgtactgag gctcaccgtc tttgtagggg cctacacctt ctgaggagca	600
ggagggagcc accctccctg cagctaccct agctgaggag cctgtttgtga ggggcagaat	660
gagaaaggca ataaaggag aaag	684

<210> 21

<211> 1422

<212> DNA

<213> Artificial Sequence: Human MBP1 (complete sequence): CDS  
(59)..(1387)

<400> 21

```
atgctcccct ggcctcctg cctacccggg tctctactgc tctgggcgct gctactgttg      60
ctcttgggat cagcttctcc tcaggattct gaagagcccg acagctacac ggaatgcaca      120
gatggctatg agtgggaccc agacagccag cactgccggg atgtcaacga gtgtctgacc      180
atccctgagg cctgcaaggg ggaaatgaag tgcatacaacc actacggggg ctacttgtgc      240
ctgccccgct ccgctgccgt catcaacgac ctacacggcg agggaccccc gccaccagtg      300
cctcccgctc aacaccccaa cccctgcccc ccaggctatg agcccgacga tcaggacagc      360
tgtgtggatg tggacgagtg tgcccaggcc ctgcacgact gtcgccccag ccaggactgc      420
cataacttgc ctggctccta tcagtgcacc tgccctgatg gttaccgcaa gatcggggccc      480
gagtgtgtgg acatagacga gtgccgctac cgctactgcc agcaccgctg cgtgaacctg      540
cctggctcct tccgctgcc a gtgcgagccg ggcttccagc tggggcctaa caaccgctcc      600
tgtgttgatg tgaacgagtg tgacatgggg gccccatgcg agcagcgctg cttcaactcc      660
tatgggacct tcctgtgtcg ctgccaccag ggctatgagc tgcatacggga tggcttctcc      720
tgcagtgata ttgatgagt tagctactcc agctacctct gtcagtaccg ctgctcaac      780
gagccaggcc gtttctcctg ccaactgcca cagggttacc agctgctggc cacacgcctc      840
tgccaagaca ttgatgagt tgagctctgg gcgcaccagt gctccgaggg ccaaacctgt      900
gtcaacttcc atgggggcta ccgctgcgtg gacaccaacc gctgctgga gccctacatc      960
caggtctctg agaaccgctg tctctgccc gctccaacc ctctatgtcg agagcagcct     1020
tcatccattg tgcaccgcta catgaccatc acctcggagc ggagcgtgcc cgctgacgtg     1080
ttccagatcc aggcgacctc cgtctacccc ggtgcctaca atgcctttca gatccgtgct     1140
ggaaactcgc agggggactt ttacattagg caaatcaaca acgtcagcgc catgctggtc     1200
ctcggccggc cgggtgacggg cccccgggag tacgtgctgg acctggagat ggtcaccatg     1260
aattccctca tgagctaccg ggccagctct gtactgaggc tcaccgtctt tgtagggggc     1320
tacaccttct gaggagcagg agggagccac cctccctgca gctaccctag ctgaggagcc     1380
tgttgtgagg ggcagaatga gaaaggcaat aaaggagaaa ag                          1422
```

<210> 22

<211> 443

<212> PRT

<213> Artificial Sequence: Human MBP1 (complete sequence)

<400> 22

Met Leu Pro Cys Ala Ser Cys Leu Pro Gly Ser Leu Leu Leu Trp Ala  
1 5 10 15

Leu Leu Leu Leu Leu Leu Gly Ser Ala Ser Pro Gln Asp Ser Glu Glu  
20 25 30

Pro Asp Ser Tyr Thr Glu Cys Thr Asp Gly Tyr Glu Trp Asp Pro Asp  
35 40 45

Ser Gln His Cys Arg Asp Val Asn Glu Cys Leu Thr Ile Pro Glu Ala  
50 55 60

Cys Lys Gly Glu Met Lys Cys Ile Asn His Tyr Gly Gly Tyr Leu Cys  
65 70 75 80

Leu Pro Arg Ser Ala Ala Val Ile Asn Asp Leu His Gly Glu Gly Pro  
85 90 95

Pro Pro Pro Val Pro Pro Ala Gln His Pro Asn Pro Cys Pro Pro Gly  
100 105 110

Tyr Glu Pro Asp Asp Gln Asp Ser Cys Val Asp Val Asp Glu Cys Ala  
115 120 125

Gln Ala Leu His Asp Cys Arg Pro Ser Gln Asp Cys His Asn Leu Pro  
130 135 140

Gly Ser Tyr Gln Cys Thr Cys Pro Asp Gly Tyr Arg Lys Ile Gly Pro  
145 150 155 160

Glu Cys Val Asp Ile Asp Glu Cys Arg Tyr Arg Tyr Cys Gln His Arg  
165 170 175

Cys Val Asn Leu Pro Gly Ser Phe Arg Cys Gln Cys Glu Pro Gly Phe  
180 185 190

Gln Leu Gly Pro Asn Asn Arg Ser Cys Val Asp Val Asn Glu Cys Asp  
195 200 205

Met Gly Ala Pro Cys Glu Gln Arg Cys Phe Asn Ser Tyr Gly Thr Phe  
Page 12

210

215

220

Leu Cys Arg Cys His Gln Gly Tyr Glu Leu His Arg Asp Gly Phe Ser  
 225 230 235 240

Cys Ser Asp Ile Asp Glu Cys Ser Tyr Ser Ser Tyr Leu Cys Gln Tyr  
 245 250 255

Arg Cys Val Asn Glu Pro Gly Arg Phe Ser Cys His Cys Pro Gln Gly  
 260 265 270

Tyr Gln Leu Leu Ala Thr Arg Leu Cys Gln Asp Ile Asp Glu Cys Glu  
 275 280 285

Ser Gly Ala His Gln Cys Ser Glu Ala Gln Thr Cys Val Asn Phe His  
 290 295 300

Gly Gly Tyr Arg Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Ile  
 305 310 315 320

Gln Val Ser Glu Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys  
 325 330 335

Arg Glu Gln Pro Ser Ser Ile Val His Arg Tyr Met Thr Ile Thr Ser  
 340 345 350

Glu Arg Ser Val Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val  
 355 360 365

Tyr Pro Gly Ala Tyr Asn Ala Phe Gln Ile Arg Ala Gly Asn Ser Gln  
 370 375 380

Gly Asp Phe Tyr Ile Arg Gln Ile Asn Asn Val Phe Ala Met Leu Val  
 385 390 395 400

Leu Ala Arg Pro Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu  
 405 410 415

Met Val Thr Met Asn Ser Leu Met Ser Tyr Arg Ala Ser Ser Val Leu  
 420 425 430

Arg Leu Thr Val Phe Val Gly Ala Tyr Thr Phe  
 435 440

&lt;210&gt; 23

&lt;211&gt; 817

&lt;212&gt; DNA

<213> Artificial Sequence: cDNA MBP1 murine (partial sequence)

<400> 23  
gctgtggcag aaaccctga cttctgcca ccacctcca gcctcaggat gtcctctttt 60  
gcctcctgcc tccccgggtc tttgctgctc tgggcgtttc tgctgttgct cttgggagca 120  
gcgtccccac aggatcccga ggagccggac agctacacgg aatgcacaga tggctatgag 180  
tgggatgcag acagccagca ctgccgggat gtcaacgagt gcctgaccat cccggaggct 240  
tgcaaggggtg agatgaaatg catcaaccac tacgggggtt atttgtgtct gcctcgctct 300  
gctgccgtca tcagtgatct ccatggtgaa ggacctccac cgccagcggc ccatgctcaa 360  
caaccaaacc cttgcccga gggctacgag cctgatgaac aggagagctg tgtggatgtg 420  
gacgagtgtg cccaggcttt gcatgactgt cgccctagtc aggactgcca taaccttcct 480  
ggctcctacc agtgcacctg ccctgatggt taccgaaaaa ttggaccga atgtgtggac 540  
atagatgagt gtcgtttaccg ctattgccag catcgatgtg tgaacctgcc gggctctttt 600  
cgatgccagt gtgagccagg cttccagttg ggacctaca accgctcttg tgtggatgtg 660  
aatgagtgtg acatgggagc cccatgtgag cagcgctgct tcaactccta tgggaccttc 720  
ctgtgtcgct gtaaccaggg ctatgagctg caccgggatg gcttctcctg cagcgatatc 780  
gatgagtgcg gctactccag ttacctctgc cagtacc 817

<210> 24

<211> 24

<212> DNA

<213> Artificial Sequence: Oligonucleotide sens-GAPDH

<400> 24  
cggagtcaac ggatttggtc gtat 24

<210> 25

<211> 24

<212> DNA

<213> Artificial Sequence: Oligonucleotide antisens-GAPDH

<400> 25  
agccttctcc atggtggtga agac 24

<210> 26

<211> 25  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide

<400> 26  
 cggttggcct tggggttcag ggggg 25

<210> 27  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide sens MBP1

<400> 27  
 gccctgatgg ttaccgcaag a 21

<210> 28  
 <211> 21  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide antisens MBP1

<400> 28  
 agcccccatg gaagttgaca c 21

<210> 29  
 <211> 20  
 <212> DNA  
 <213> Artificial Sequence: oligonucleotide sens actine

<400> 29  
 gtggggcgcc ccaggcacca 20

<210> 30  
 <211> 1358  
 <212> DNA  
 <213> Artificial Sequence: Human fragment C-term MBP1: CDS  
 (1)..(885)

```

<400> 30
tgcacctgcc ctgatgggta ccgcaagatc gggccccgagt gtgtggacat agacgagtgc 60
cgctaccgct actgccagca ccgctgcgtg aacctgcctg gctccttccg ctgccagtgc 120
gagccgggct tccagctggg gcctaacaac cgctcctgtg ttgatgtgaa cgagtgtgac 180
atggggggccc catgcgagca gcgctgcttc aactcctatg ggaccttcct gtgtcgctgc 240
caccagggct atgagctgca tcgggatggc ttctcctgca gtgatattga tgagtgtagc 300
tactccagct acctctgtca gtaccgctgc gtcaacgagc caggccgttt ctctgccac 360
tgcccacagg gttaccagct gctggccaca cgcctctgcc aagacattga tgagtgtgag 420
tctggtgcgc accagtgtc cgaggcccaa acctgtgtca acttccatgg gggctaccgc 480
tgcgtggaca ccaaccgctg cgtggagccc tacatccagg tctctgagaa ccgctgtctc 540
tgcccgccct ccaaccctct atgtcgagag cagccttcat ccattgtgca ccgctacatg 600
accatcacct cggagcggag cgtgcccgt gacgtgttcc agatccaggc gacctccgtc 660
taccgccgtg cctacaatgc ctttcagatc cgtgctggaa actcgcaggg ggacttttac 720
attaggcaaa tcaacaacgt cagcgccatg ctggtcctcg cccggccggt gacgggcccc 780
cgggagtagc tgctggacct ggagatggtc accatgaatt ccctcatgag ctaccggggc 840
agctctgtac tgaggctcac cgtctttgta ggggcctaca cttctgagg agcaggaggg 900
agccaccctc cctgcagcta ccctagctga ggagcctgtt gtgaggggca gaatgagaaa 960
ggcaataaag ggagaaagaa agtcctggtg gctgaggtgg gcgggtcaca ctgcaggaag 1020
cctcaggctg gggcagggtg gcacttgggg gggcaggcca agttcaccta aatgggggtc 1080
tctatatgtt caggcccagg ggccccatt gacaggagct gggagctctg caccacgagc 1140
ttcagtcacc ccgagaggag aggaggtaac gaggagggcg gactccaggc cccggcccag 1200
agatttggac ttggctggct tgcaggggtc ctaagaaact ccactctgga cagcgccagg 1260
aggccctggg ttccattcct aactctgcct caaactgtac atttggataa gccctagtag 1320
ttccctgggc ctgtttttct ataaaacgag gcaactgg 1358

```

<210> 31

<211> 295

<212> PRT

<213> Artificial Sequence: Human fragment C-term MBP1

<400> 31

Cys Thr Cys Pro Asp Gly Tyr Arg Lys Ile Gly Pro Glu Cys Val Asp  
1 5 10 15



Ile Asp Glu Cys Arg Tyr Arg Tyr Cys Gln His Arg Cys Val Asn Leu  
20 25 30

Pro Gly Ser Phe Arg Cys Gln Cys Glu Pro Gly Phe Gln Leu Gly Pro  
35 40 45

Asn Asn Arg Ser Cys Val Asp Val Asn Glu Cys Asp Met Gly Ala Pro  
50 55 60

Cys Glu Gln Arg Cys Phe Asn Ser Tyr Gly Thr Phe Leu Cys Arg Cys  
65 70 75 80

His Gln Gly Tyr Glu Leu His Arg Asp Gly Phe Ser Cys Ser Asp Ile  
85 90 95

Asp Glu Cys Ser Tyr Ser Ser Tyr Leu Cys Gln Tyr Arg Cys Val Asn  
100 105 110

Glu Pro Gly Arg Phe Ser Cys His Cys Pro Gln Gly Tyr Gln Leu Leu  
115 120 125

Ala Thr Arg Leu Cys Gln Asp Ile Asp Glu Cys Glu Ser Gly Ala His  
130 135 140

Gln Cys Ser Glu Ala Gln Thr Cys Val Asn Phe His Gly Gly Tyr Arg  
145 150 155 160

Cys Val Asp Thr Asn Arg Cys Val Glu Pro Tyr Ile Gln Val Ser Glu  
165 170 175

Asn Arg Cys Leu Cys Pro Ala Ser Asn Pro Leu Cys Arg Glu Gln Pro  
180 185 190

Ser Ser Ile Val His Arg Tyr Met Thr Ile Thr Ser Glu Arg Ser Val  
195 200 205

Pro Ala Asp Val Phe Gln Ile Gln Ala Thr Ser Val Tyr Pro Gly Ala  
210 215 220

Tyr Asn Ala Phe Gln Ile Arg Ala Gly Asn Ser Gln Gly Asp Phe Tyr  
225 230 235 240

Ile Arg Gln Ile Asn Asn Val Ser Ala Met Leu Val Leu Ala Arg Pro  
245 250 255

Val Thr Gly Pro Arg Glu Tyr Val Leu Asp Leu Glu Met Val Thr Met  
260 265 270

Asn Ser Leu Met Ser Tyr Arg Ala Ser Ser Val Leu Arg Leu Thr Val  
 275 280 285

Phe Val Gly Ala Tyr Thr Phe  
 290 295

<210> 32

<211> 1663

<212> DNA

<213> Artificial Sequence: Fragment c-term fibuline 2 murine: CDS  
 (1)..(999)

<400> 32

gagggctctg aatgtgtgga tgtgaatgag tgtgagacag gtgtgcatcg ctgtggcgag	60
ggccaactgt gctataacct ccctggatcc taccgctgtg actgcaagcc cggcttccag	120
agggatgcat tcggcaggac ttgcattgat gtgaacgaat gctgggtctc gccgggcccgc	180
ctgtgccagc acacatgtga gaacacaccg ggctcctacc gctgctcctg cgctgctggc	240
ttcctttttg cgcagatgg caaacattgt gaagatgtga acgagtgcga gactcggcgc	300
tgcagccagg aatgtgccaa catctatggc tcctatcagt gctactgccg tcagggctac	360
cagctggcag aggatgggca tacctgcaca gacatcgatg agtgtgcaca gggcgcgggc	420
attctctgta ccttccgctg tgtcaacgtg cctgggagct accagtgtgc atgcccagag	480
caaggggtata caatgatggc caacgggagg tcctgcaagg acctggatga gtgtgcactg	540
ggcaccacaca actgctctga ggctgagacc tgccacaata tccaggggag tttccgctgc	600
ctgcgctttg attgtccacc caactatgtc cgtgtctcac aaacgaagtg cgagcgcacc	660
acatgccagg atatcacgga atgtcaaacc tcaccagctc gcatcacgca ctaccagctc	720
aatttccaga caggcctact ggtacctgca catatcttcc gcatcggccc tgctcccgcc	780
tttgctgggg acaccatctc cctgaccatc acgaagggca atgaggaggg ctacttcgtc	840
acacgcagac tcaatgccta cactggtgtg gtatccctgc agcggctctgt tctggagccg	900
cgggactttg ccctagatgt ggagatgaag ctttggcgcc agggctctgt cactaccttc	960
ctggccaaga tgtacatctt cttcaccact tttgccccat gaggtgacat gtcaggcaat	1020
ccctccaggt gatgcctggg cggtgggcag ctgcgccact cctaagtggc tttttgctgt	1080
gactctgtaa cttaacttaa tcatgctgag ctggttggtc ttgagtctct accctagagg	1140
gagggagatg caccacagca ggcactgagt acaggccagg gtcacccgag gctagatggt	1200
gacctgcaaa ctggaaacag ccataggggg cttctgaact ccactcctca actatggcta	1260

cagctgacat tccattcctt catccactgt gttcctcaat taaaaaaaaa aatcagctgt 1320  
gcattggtagc acagaccttt aatcctagca ctggggaggc agaggtaggt agatctctga 1380  
gttccaggcc agcctggtct acactgggag ttctaaccag ccagagctac atagagagac 1440  
cctatctcaa caaggaaaaa acgaaagaaa tctctgtgag ttccaggcca gcctggtcta 1500  
cgctgggagt tctaaccagc cagagctaca tagagagatc ctatctcaac aaggaaaaat 1560  
gaaagaaatc attttaaaag gttttttttt ttgctgttgt tgtttaatga taagagtagc 1620  
acatacatat tattaataat gatcaaatac cacagaaagg tta 1663

<210> 33

<211> 333

<212> PRT

<213> Artificial Sequence: Fragment c-term fibuline 2 murine

<400> 33

Glu Gly Ser Glu Cys Val Asp Val Asn Glu Cys Glu Thr Gly Val His  
1 5 10 15

Arg Cys Gly Glu Gly Gln Leu Cys Tyr Asn Leu Pro Gly Ser Tyr Arg  
20 25 30

Cys Asp Cys Lys Pro Gly Phe Gln Arg Asp Ala Phe Gly Arg Thr Cys  
35 40 45

Ile Asp Val Asn Glu Cys Trp Val Ser Pro Gly Arg Leu Cys Gln His  
50 55 60

Thr Cys Glu Asn Thr Pro Gly Ser Tyr Arg Cys Ser Cys Ala Ala Gly  
65 70 75 80

Phe Leu Leu Ala Ala Asp Gly Lys His Cys Glu Asp Val Asn Glu Cys  
85 90 95

Glu Thr Arg Arg Cys Ser Gln Glu Cys Ala Asn Ile Tyr Gly Ser Tyr  
100 105 110

Gln Cys Tyr Cys Arg Gln Gly Tyr Gln Leu Ala Glu Asp Gly His Thr  
115 120 125

Cys Thr Asp Ile Asp Glu Cys Ala Gln Gly Ala Gly Ile Leu Cys Thr  
130 135 140

Phe Arg Cys Val Asn Val Pro Gly Ser Tyr Gln Cys Ala Cys Pro Glu  
Page 19

145		150		155		160
Gln Gly Tyr Thr	Met 165	Met Ala Asn Gly	Arg 170	Ser Cys Lys Asp	Leu 175	Asp
Glu Cys Ala	Leu 180	Gly Thr His Asn	Cys 185	Ser Glu Ala Glu	Thr 190	Cys His
Asn Ile	Gln 195	Gly Ser Phe Arg	Cys 200	Leu Arg Phe Asp	Cys 205	Pro Pro Asn
Tyr Val	Arg 210	Val Ser Gln Thr	Lys 215	Cys Glu Arg Thr	Thr 220	Cys Gln Asp
Ile 225	Thr Glu Cys Gln	Thr 230	Ser Pro Ala Arg	Ile 235	Thr His Tyr Gln	Leu 240
Asn Phe Gln Thr	Gly 245	Leu Leu Val Pro	Ala 250	His Ile Phe Arg	Ile 255	Gly
Pro Ala Pro	Ala 260	Phe Ala Gly Asp	Thr 265	Ile Ser Leu Thr	Ile 270	Thr Lys
Gly Asn	Glu 275	Glu Gly Tyr Phe	Val 280	Thr Arg Arg Leu	Asn 285	Ala Tyr Thr
Gly Val	Val 290	Ser Leu Gln Arg	Ser 295	Val Leu Glu Pro	Arg 300	Asp Phe Ala
Leu Asp Val	Glu 305	Met Lys Leu Trp Arg	Gln 310	Gly 315	Ser Val Thr Thr	Phe 320
Leu Ala Lys Met	Tyr 325	Ile Phe Phe Thr	Thr 330	Phe Ala Pro		